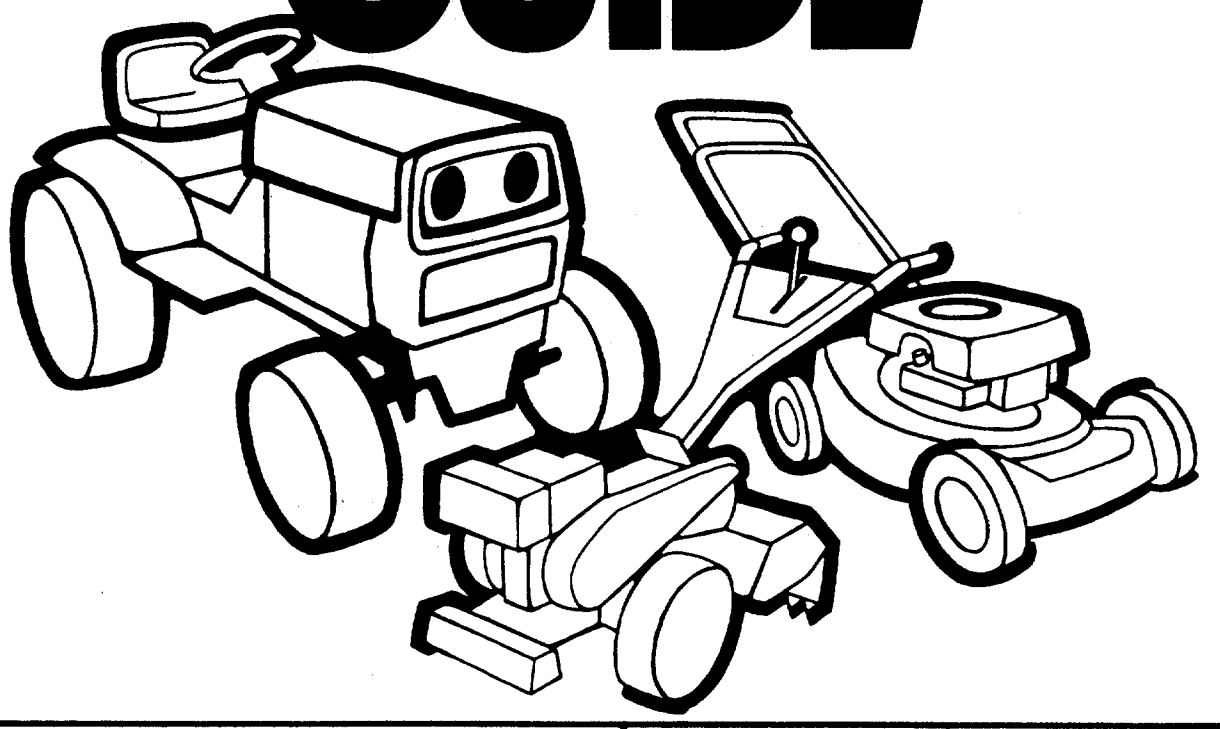
$1.00

OWNER'S GUIDE



22″ ELECTRIC START SELF-PROPELLED ROTARY MOWER

Agway Model Number 82-0667

(127-226-019)

➡ **IMPORTANT**

The battery pack is shipped in a partially charged state and must be charged 16 hours prior to initial use. Follow charging instructions on page 10.

IMPORTANT: Read Safety Rules and Instructions Carefully

Thank you for purchasing an American-built product.

FORM NO. 770-5623B

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Dear Customer,

So often throughout the year we are all in a rush to meet our daily obligations.

However, we at MTD Products Inc are taking a quick moment out to say. . .

"Thank you for your business."

Sincerely,
MTD PRODUCTS INC

INSTRUCTIONS GIVEN WITH THIS SYMBOL ARE FOR PERSONAL SAFETY. BE SURE TO FOLLOW THEM.

LIMITED WARRANTY

For one year from the date of original retail purchase, MTD PRODUCTS INC will either repair or replace, at its option, free of charge, F.O.B. factory or authorized service firm, any part or parts found to be defective in material or workmanship. Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by MTD PRODUCTS INC.

This warranty will not apply to any part which has become inoperative due to misuse, excessive use, accident, neglect, improper maintenance, alterations, or unless the unit has been operated and maintained in accordance with the instructions furnished. This warranty does not apply to the engine, motor, battery, battery charger or component parts thereof. Please refer to the applicable manufacturer's warranty on these items.

This warranty will not apply where the unit has been used commercially.

Warranty service is available through your local authorized service dealer or distributor. If you do not know the dealer or distributor in your area, please write to the Customer Service Department of MTD.

The return of a complete unit will not be accepted by the factory unless prior written permission has been extended by MTD.

This warranty gives you specific legal rights. You may also have other rights which vary from state to state.

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

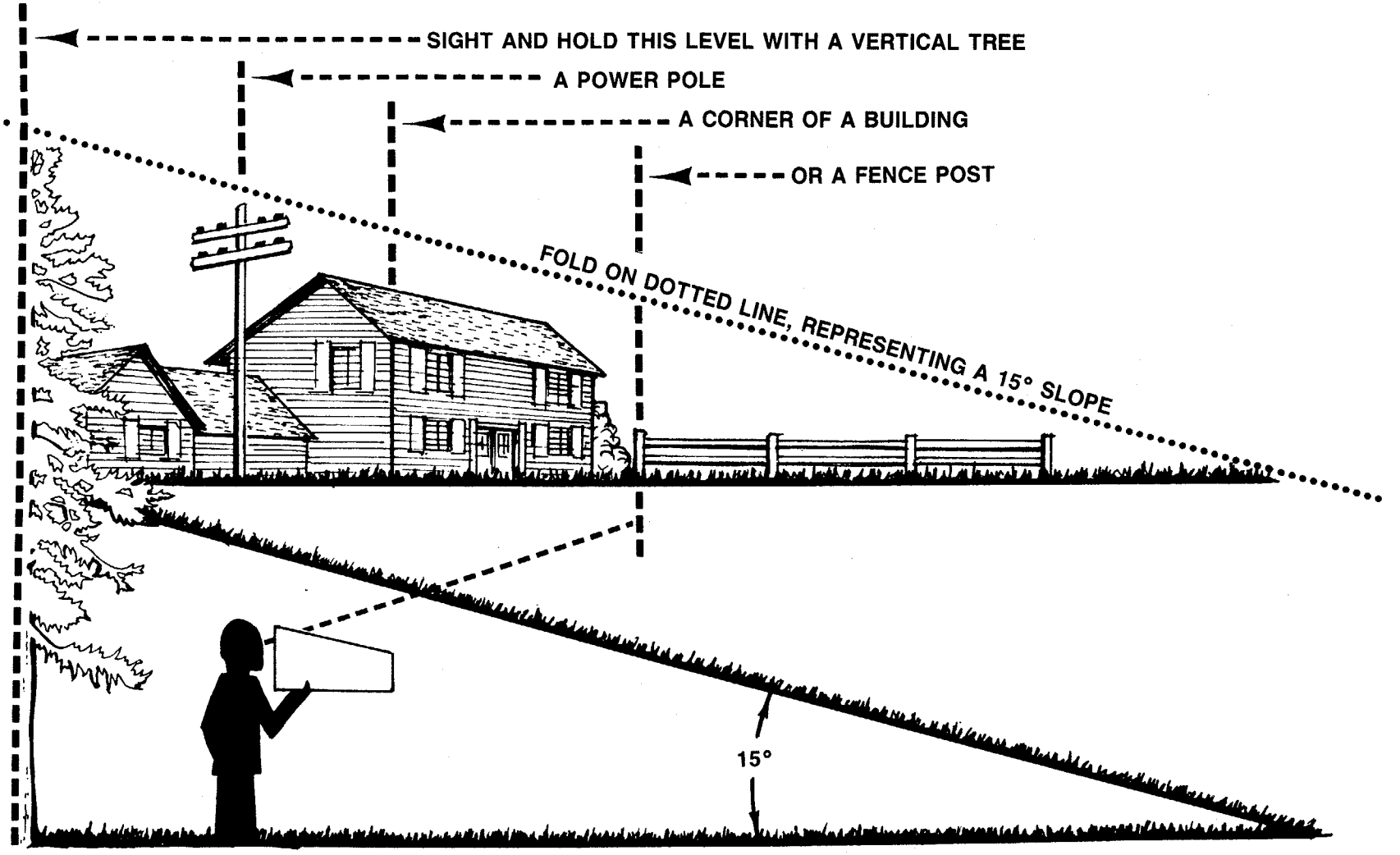
In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler is available at your nearest engine authorized service center.

Cut Along This Line

SLOPE GAUGE

(Keep this sheet in a safe place for future reference.)

USE THIS SHEET AS A GUIDE TO DETERMINE SLOPES WHERE YOU MAY NOT OPERATE SAFELY.


SIGHT AND HOLD THIS LEVEL WITH A VERTICAL TREE
A POWER POLE
A CORNER OF A BUILDING
OR A FENCE POST
FOLD ON DOTTED LINE, REPRESENTING A 15° SLOPE
15°

WARNING

Do not mow on inclines with a slope in excess of 15 degrees (a rise of approximately 2½ feet every 10 feet). A riding mower could overturn and cause serious injury. If operating a walk-behind mower on such a slope, it is extremely difficult to maintain your footing and you could slip, resulting in serious injury.

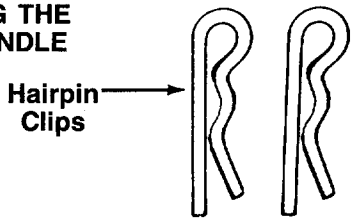
Operate RIDING mowers up and down slopes, never across the face of slopes.
Operate WALK-BEHIND mowers across the face of slopes, never up and down slopes.

CONTENTS OF HARDWARE PACK/PARTS IDENTIFICATION

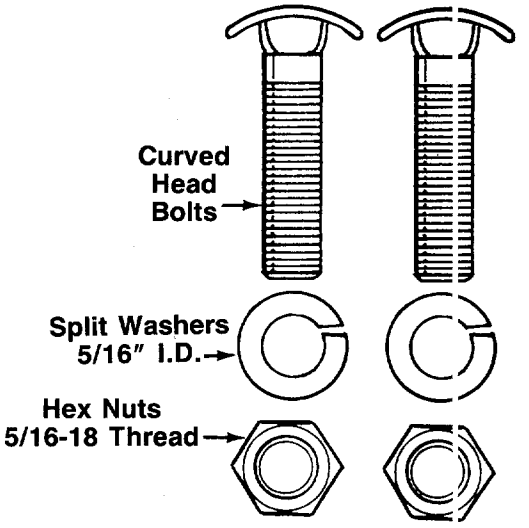
Remove this sheet from your owner's manual a ıd lay the hardware on the illustration for identification purposes. After assembly, keep the Slope Gauge which s on the reverse side of this sheet for future use.

(Hardware pack may contain extra items which are not used on your unit.)

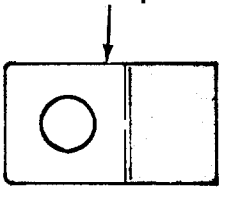
A ATTACHING THE LOWER HANDLE



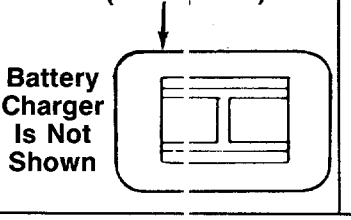
B ATTACHING THE UPPER HANDLE

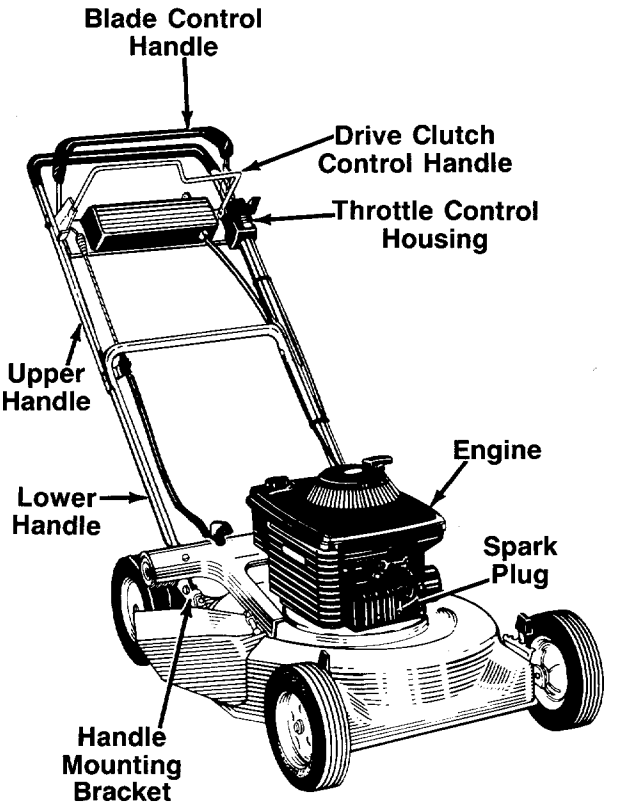


C ATTACHING THE THROTTLE CABLE



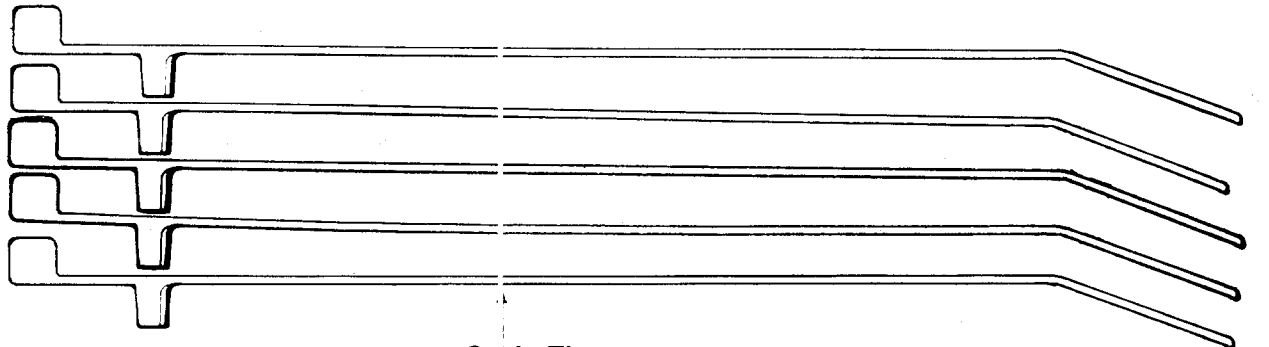
D FINAL ASSEMBLY





PARTS IDENTIFICATION

E SECURING THE CABLES



Cut Along This Line

IMPORTANT

RULES FOR SAFE OPERATION

THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH, IF NOT FOLLOWED, COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OF YOURSELF AND OTHERS. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE YOUR LAWN MOWER. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY. WHEN YOU SEE THIS SYMBOL— **HEED ITS WARNING.**

DANGER

Your lawn mower was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.

TRAINING

1. Read this owner's manual carefully in its entirety before attempting to assemble or operate this machine. Be completely familiar with the controls and the proper use of this machine before operating it. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Your rotary mower is a precision piece of power equipment, not a plaything. Therefore, exercise extreme caution at all times.
3. Never allow children to operate a power mower. Only persons well acquainted with these rules of safe operation should be allowed to use your mower.
4. Keep the area of operation clear of all persons, particularly small children and pets. Stop engine when they are in the vicinity of your mower to help prevent blade contact or thrown object injury. Although the area of operation should be completely cleared of foreign objects, an object may have been overlooked and could be accidently thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.

PREPARATION

1. Thoroughly inspect the area where the equipment is to be used. Remove all stones, sticks, wire, bones and other foreign objects which could be picked up and thrown by the mower in any direction and cause serious personal injury to the operator or any others allowed in the area.
2. Always wear safety glasses or eye shields during operation or while performing an adjustment or repair, to protect eyes from foreign objects that may be thrown from the machine in any direction.
3. Wear sturdy, rough-soled work shoes and close-fitting slacks and shirts to avoid entanglement in the moving parts. Never operate a unit in bare feet, sandals, or sneakers.
4. Check the fuel before starting the engine. Gasoline is an extremely flammable fuel. Do not fill the gasoline tank indoors, while the engine is running, or until engine has been allowed to cool for two minutes after running. Replace gasoline cap securely and wipe off any spilled gasoline before starting the engine as it may cause a fire or explosion.
5. Disengage the self-propelled mechanism or drive clutch on units so equipped before starting the engine.
6. The blade control handle is a safety device. Never attempt to bypass its operation. Doing so makes the safety device inoperative and may result in personal injury through contact with the rotating blade. The blade control handle must operate easily in both directions.
7. Never attempt to make a wheel or cutting height adjustment while the engine is running.
8. Never operate the equipment in wet grass. Always be sure of your footing. A slip and fall can cause serious personal injury. Keep a firm hold on the handle and walk, never run. Mow only in daylight or in good artificial light.
9. For your safety, use the slope gauge included as part of this manual to measure slopes before operating this unit on a sloped or hilly area. If the slope is greater than 15^0 as shown on the slope gauge, do not operate this unit on that area or serious injury could result.

OPERATION

1. Do not change the engine governor settings or overspeed the engine. Excessive engine speeds are dangerous.
2. Do not put hands or feet near or under rotating parts. Keep clear of the discharge opening at all times as the rotating blade can cause injury.
3. Stop the blade when crossing gravel drives, walks or roads.
4. After striking a foreign object, stop the engine, remove the wire from the spark plug, and thoroughly inspect the mower for any damage. Repair the damage before restarting and operating the mower.
5. If the equipment should start to vibrate abnormally, stop the engine and check immediately for the cause. Vibration is generally a warning of trouble.
6. Shut the engine off and wait until the blade comes to a complete stop before removing the grass catcher or unclogging the chute. The cutting blade continues to rotate for a few seconds after the engine is shut off. Never place any part of the body in the blade area until you are sure the blade has stopped rotating.
7. Before cleaning, repairing or inspecting, make certain the blade and all moving parts have stopped. Disconnect the spark plug wire, and keep the wire away from the spark plug to prevent accidental starting.
8. Do not run the engine indoors.
9. Mow across the face of slopes, never up-and-down. Exercise extreme caution when changing direction on slopes. Do not mow excessively steep slopes. Always be sure of your footing. A slip and fall can cause serious personal injury.
10. Never operate mower without proper guards, plates or other safety protective devices in place.

MAINTENANCE AND STORAGE

1. Check the blade and engine mounting bolts at frequent intervals for proper tightness.
2. Keep all nuts, bolts, and screws tight to be sure the equipment is in safe working condition.
3. Never store the equipment with gasoline in the tank inside of a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.
4. To reduce fire hazard, keep the engine free of grass, leaves, or excessive grease.
5. Check the grass catcher bag frequently for wear or deterioration. For safety protection, replace only with new bag meeting original equipment specifications.

IMPORTANT: This unit is shipped WITHOUT GASOLINE or OIL. After assembly, service engine with gasoline and oil as instructed in the separate engine manual packed with your unit.

NOTE: Reference to right or left hand side of the mower is observed from the operating position. Refer to parts identification on page 4 for location of parts when assembling the mower.

ASSEMBLY INSTRUCTIONS

Tools Required for Assembly

(1) Pair of Pliers
(1) Phillips Head Screwdriver
(1) 1/2" Wrench*
(1) 5/16" Wrench or Nutdriver*
(1) 7/16" Wrench*
*Or one 6" Adjustable Wrench.

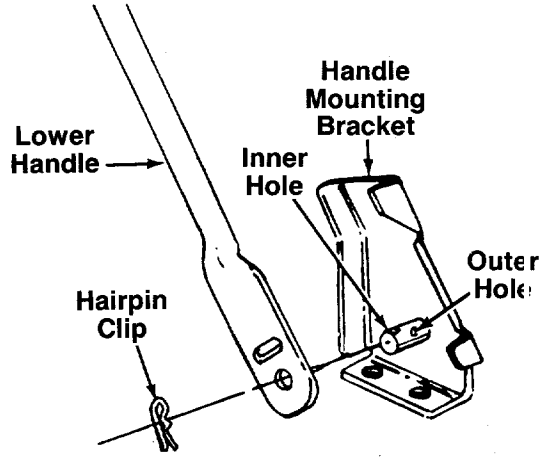


FIGURE 1.

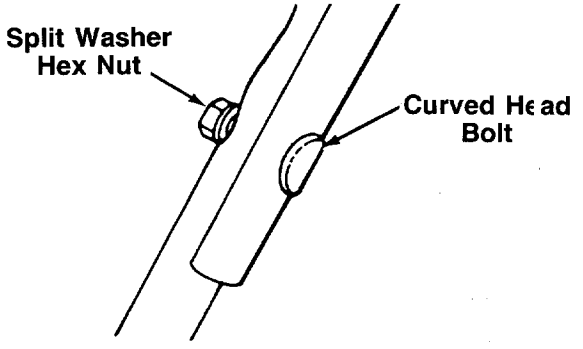


FIGURE 2.

UNPACKING

1. Remove the lawn mower from the carton by opening the top flaps and lifting the unit out. Be careful of the staples. Make certain all parts and literature have been removed from the carton before the carton is discarded.
2. Disconnect and ground the spark plug wire against the engine. Check beneath the deck for any cardboard packaging. Remove if present.
3. Stretch out all control cables and place on the floor. Be careful not to bend or kink the cables at any time during assembly.
4. Remove page four from this manual and lay the contents of the hardware pack on the illustration for identification.

ATTACHING THE LOWER HANDLE (Hardware A)

1. Attach the lower handle by placing the bottom holes in the lower handle over the weld pins on the handle mounting brackets on the rear of the deck.
2. Using a pair of pliers, squeeze one leg of the lower handle against the handle mounting bracket. Insert the hairpin clip into the inner hole on the weld pin. See figure 1. Repeat on other side.

NOTE

There are two (2) holes in the handle mounting brackets. Place the hairpin clip in the inner hole for operation. Outer hole is for storage.

ATTACHING THE UPPER HANDLE (Hardware B)

Place the upper handle in position over the lower handle. The label on the throttle control housing and the control lever must be facing up. Secure the upper handle using two curved head bolts, split washers and hex nuts as shown in figure 2.

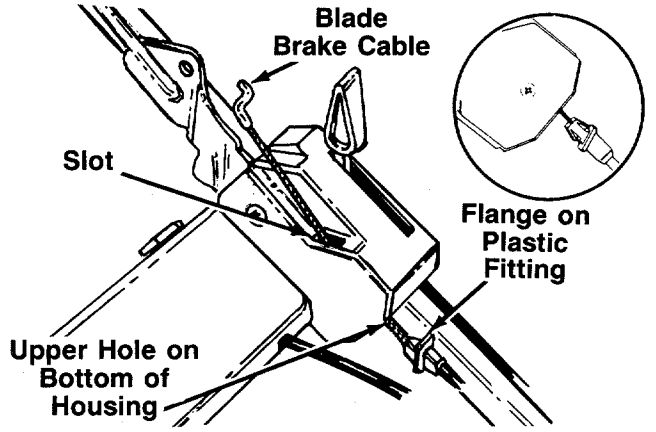


FIGURE 3.

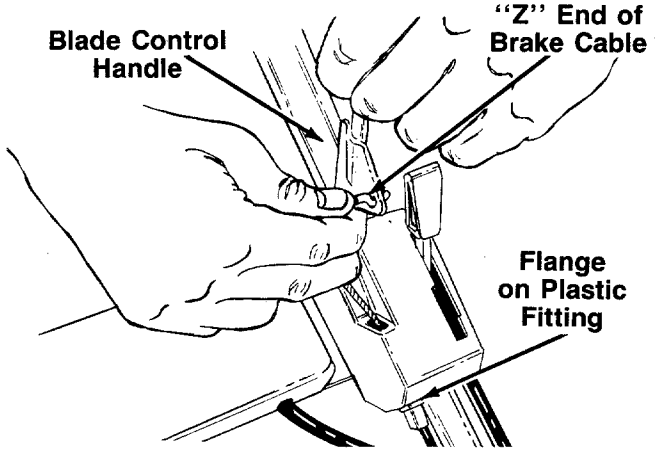


FIGURE 4.

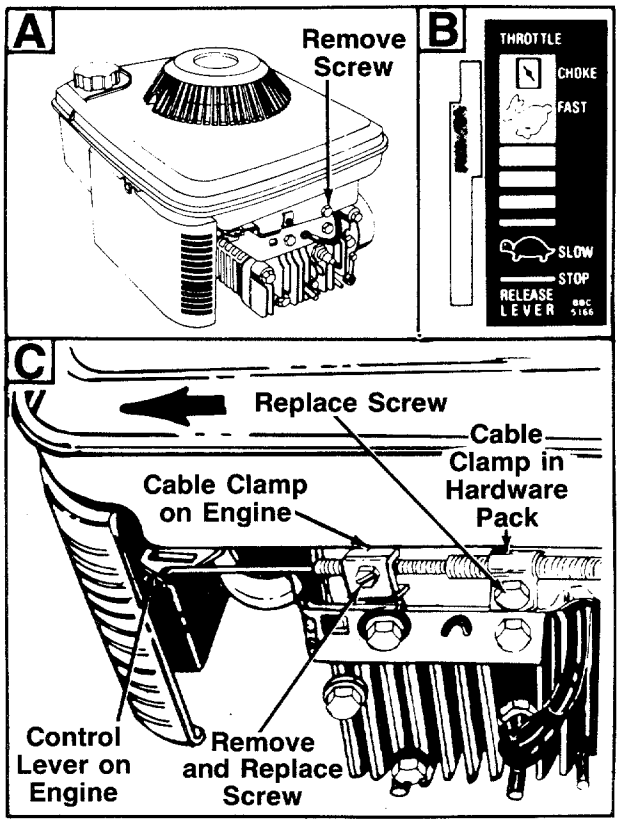


FIGURE 5.

ATTACHING THE BRAKE CABLE

1. The brake cable is attached to the engine, and has a "Z" fitting on the loose end. Route the brake cable below the lower handle. Place end of cable into the upper hole on the bottom of the control housing, and through the slot as shown. The angle of the plastic flange must be positioned downward as shown in figure 3. Be careful not to bend or kink the cable at any time.
2. Push the plastic fitting until it locks into the control housing.

WARNING

Brake cable must be assembled as shown for proper blade brake operation.

3. Hook the "Z" end of the brake cable into the hole in the blade control handle from the inside to the outside as shown in figure 4.

ATTACHING THE THROTTLE CABLE (Hardware C)

1. Using a 7/16" wrench, remove the screw on the engine shown in figure 5A.
2. Move throttle control lever until it stops in FAST position (**do not** push all the way forward to CHOKE position). See figure 5B.
3. The throttle control cable is attached to the upper handle. Route the throttle control cable under the lower handle and inside the handle mounting bracket. Hook the "Z" end of the throttle control cable into the hole in the control lever on the engine.
4. Using a 5/16" wrench or nutdriver, remove the screw on the cable clamp shown in figure 5C. Slip the control casing under the clamp. Replace the screw (casing should be above the screw), but do not tighten screw (cable must still move freely beneath the clamp).
5. Slide the control lever on the engine as far toward the **outside** of the engine as it will go easily (just until resistance is felt) as shown in figure 5C. (**Do not** force it into the extreme outside position, which is the CHOKE position.) Tighten the screw to secure the throttle control cable in this position.
6. Loosen the screw on the clamp on the side of the engine. Secure the cable **away from the muffler.** Be careful not to bend or kink the cable. Tighten the screw.
7. Secure cable casing to the front of engine with cable clamp provided in hardware pack and screw removed from engine in step 1 as shown in figure 5C. Do not overtighten.

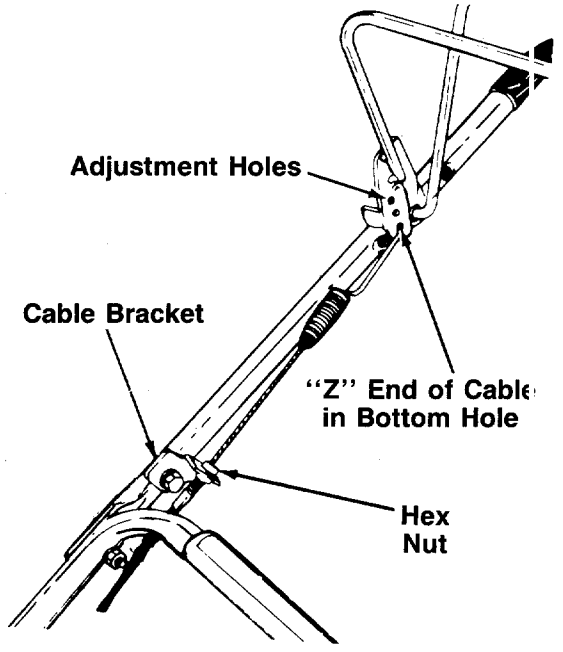


FIGURE 6.

ATTACHING THE DRIVE CLUTCH CONTROL CABLE

1. The drive clutch control cable is attached to the drive cover, and has a spring on one end. Route the clutch cable inside the handle mount bracket and under the lower handle. Hook the spring on the end of the cable into the bottom hole on the drive clutch control handle. See figure 6.
2. Remove one hex nut and the lock washer from the end of the cable casing. Pull down on the cable casing, and slip the control wire through the slot in the cable bracket. Push the end of the cable casing up through the hole in the cable bracket. Replace the lock washer and hex nut. **Adjust as specified in step 3.**

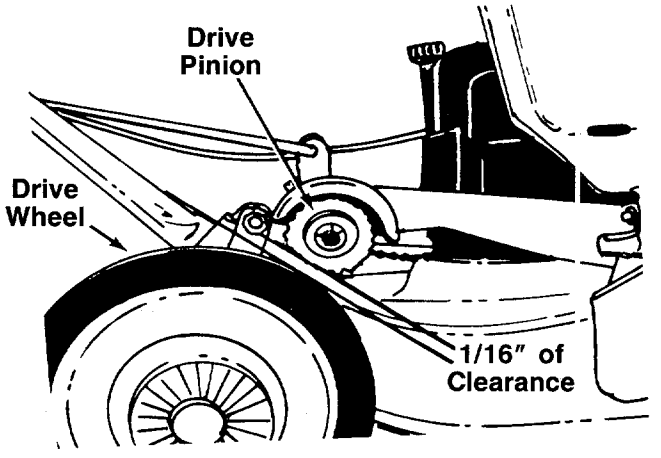


FIGURE 7.

3. Adjust the clutch cable by adjusting the hex nuts at the cable bracket. Correct adjustment is as follows.

   The drive pinions should be approximately 1/16" from the drive wheels when the clutch is disengaged (clutch control handle is **not** squeezed against upper handle). See figure 7.

   When the clutch control is engaged, the drive pinions should press against the tires.
   If further adjustment is needed, refer to adjustment section of this manual.

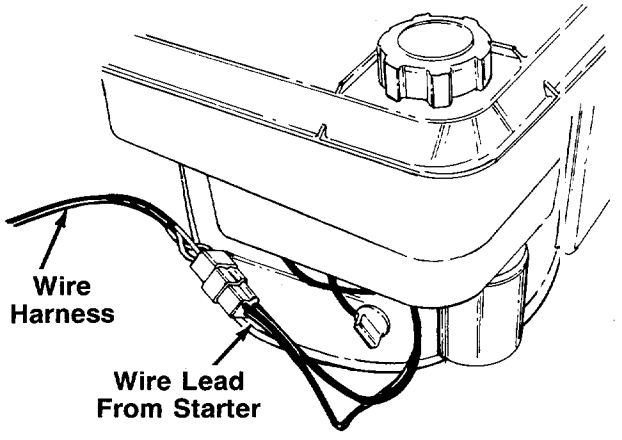


FIGURE 8.

ATTACHING THE WIRE HARNESS

Plug the end of the wire lead coming from the starter on the engine into the plug on the end of the wire harness. See figure 8.

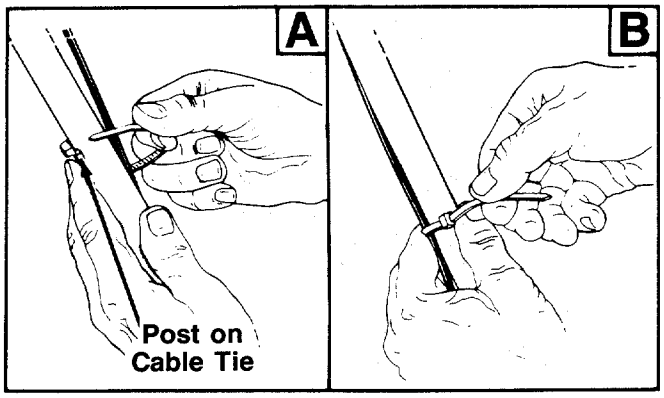


FIGURE 9.

SECURING THE CABLES (Hardware E)

Secure all cables to the handles as follows.

A. Insert posts on cable ties into holes provided on the handles. Two go on each side of the lower handle (one near the top and one near the bottom), and one goes on the left side of upper handle. The holes may be either on the inside or outside of the handles. See figure 9A.

B. Secure the cables with the cable ties. See figure 9B.

C. Trim excess ends of cable ties.

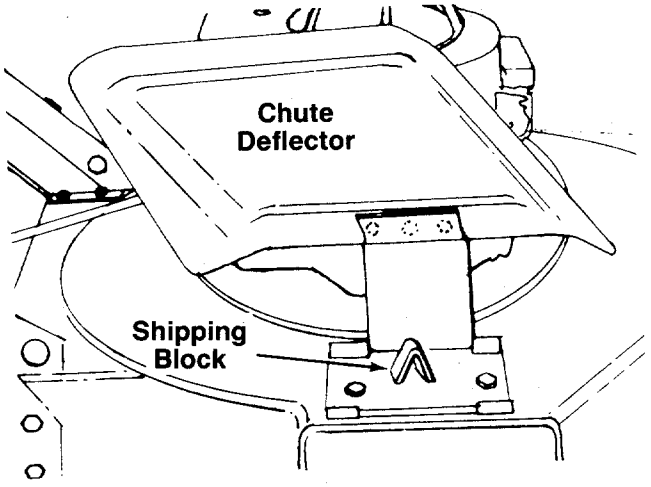


FIGURE 10.

FINAL ASSEMBLY OF MOWER (Hardware D)

1. If plastic plug is needed and is not already assembled, insert plastic plug into hole in the top rear of the deck by slipping one end of plug into hole, then pressing down on the other end of plug. Use a soft hammer if necessary.
2. The chute deflector on your mower is held in an upright position by a "V" block for shipping purposes only. This "V" block must be removed and discarded before the mower is put into operation. See figure 10.

   To remove the "V" block, pull the spring-loaded chute toward the engine. Remove the "V" block and carefully lower the chute into operating position, keeping fingers out of the way.
3. Attach hub caps to the wheels by lining up the four tabs on the hub caps with the four holes in the wheels. Push to lock in position.
4. Make certain **all** nuts and bolts are tightened securely.

CONTROLS

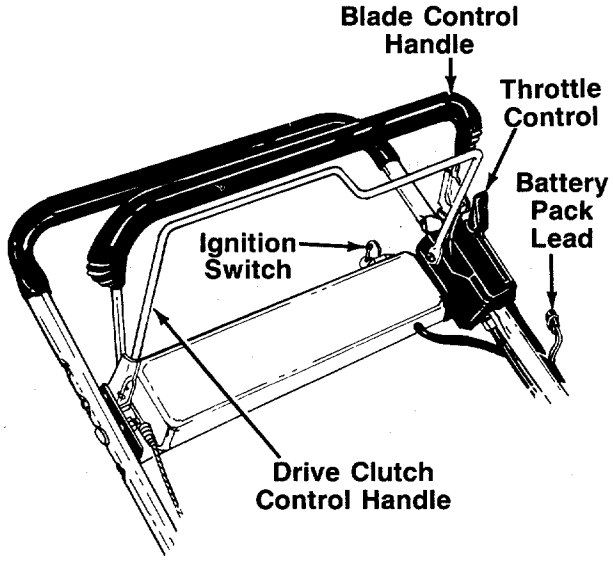


FIGURE 11.

BLADE CONTROL HANDLE

WARNING
THIS CONTROL MECHANISM IS A SAFETY DEVICE. NEVER ATTEMPT TO BYPASS ITS OPERATIONS

The blade control handle is located on the upper handle of the mower. See figure 11. The blade control handle must be depressed in order to operate the unit. Release the blade control handle to stop the engine and blade.

WARNING

The blade will be rotating whenever the engine is running.

THROTTLE CONTROL

The throttle control is located on the left side of the upper handle. It is used to regulate the engine speed.

WARNING

The throttle control cannot be used to stop the engine.

IGNITION SWITCH

The ignition switch is located on the left side of handle panel. It is used for starting only. See figure 1[illegible].

DRIVE CLUTCH CONTROL

Squeezing the drive clutch control handle engages the drive mechanism to the rear wheels. Releasing the clutch control stops the rear wheels from driving. Release the drive clutch control to slow down when negotiating an obstacle, making a turn or stopping. See figure 11.

OPERATION

FIGURE 12.

Keep hands and feet away from the chute area on cutting deck. See figure 12.

NOTE

For shipping purposes your mower is set with the wheels in a low cutting height position. For best results raise the cutting position until it is determined which height is best for your lawn. See cutting height adjustment section.

GAS AND OIL FILL-UP

Service the engine with gasoline and oil as instructed in the separate engine manual packed with your mower. Read instructions carefully.

NOTE

Your unit has been shipped without oil; however, a small amount of oil may be present from the factory. Do not overfill.

WARNING

Never fill fuel tank indoors, with engine running or until the engine has been allowed to cool for at least two minutes after running.

BEFORE STARTING

WARNING

The battery contains corrosive fluid and toxic material. HANDLE WITH CARE. Keep away from children. Do not puncture, disassemble, mutilate or incinerate. Explosive gases could be vented during charging or discharging. Use in a well-ventilated area, away from sources of ignition.

1. Charge battery for 16 hours before initial use. DO NOT CHARGE LONGER THAN 20 HOURS.

CAUTION

Use only the battery charger supplied with this mower.

To charge the battery, first remove the protective cap from the end of the battery pack lead. See figure 11. Always plug charger lead into battery pack lead before inserting battery charger plug into 120 volt standard household outlet.

After charging, disconnect battery charger plug from household outlet first, then disconnect charger lead from battery pack lead.

WARNING

Do not remove the battery pack from the handle panel for any reason other than replacement. When replacing the battery pack, refer to instructions in Maintenance section.

2. Before each use, check drive clutch adjustment. When the clutch handle is engaged, the drive pinions should press against the tires. When the clutch handle is released, the pinions should clear the wheels by approximately 1/16". See drive clutch adjustment on page 12 for further details.
3. Attach spark plug wire to spark plug.
4. Open fuel shut-off valve. See figure 13.

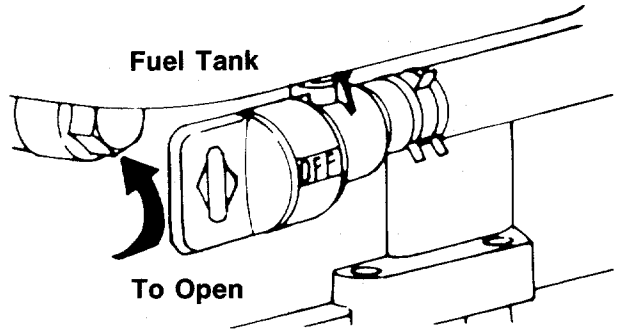


FIGURE 13.

TO START ENGINE AND ENGAGE BLADE

WARNING

When starting the unit for the first time, face the mower against a solid object such as a wall, fence, etc. Start the unit, and if it shows any signs of motion with the drive clutch control disengaged, shut the engine off immediately. Refer to page 12 for further instructions on the drive clutch adjustment.

1. Move the throttle control lever to CHOKE position.

NOTE

A warm engine may not require choking.

2. Standing behind the unit, depress the blade control handle and hold it against the upper handle as shown in figure 14. Be certain the drive clutch handle is released.
3. Turn the ignition key to the right to start the engine. Release the key after engine starts.
4. After engine starts, move throttle control to desired engine speed.

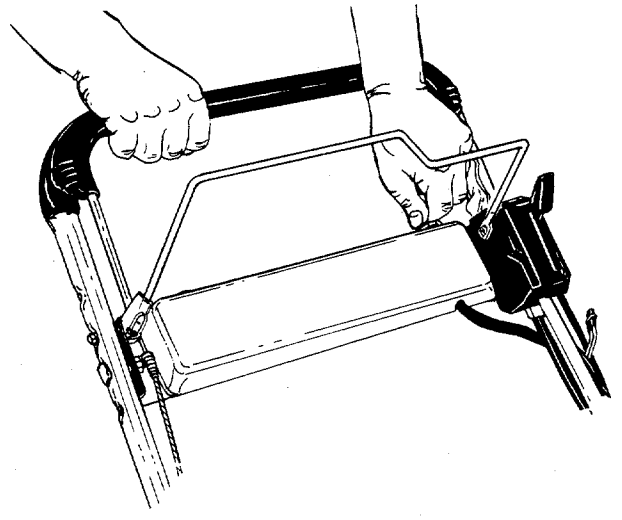


FIGURE 14.

NOTE

The engine on your unit is provided with an auxiliary recoil starter system. To start the engine using the auxiliary starter system, proceed as follows.

A. Depress the blade control handle, and hold it against the upper handle.

B. Grasp the recoil starter handle, slowly pull the rope out from the engine about two feet and hold rope in this position.

C. Step behind the handle into the operating position. With the blade control handle still depressed, pull recoil starter handle using a quick, firm motion. Repeat until engine starts. After engine starts, return rope slowly to the engine.

TO STOP ENGINE AND BLADE

1. Release the blade control handle to stop the engine and blade.

WARNING

The blade continues to rotate for a few seconds after the engine is shut off.

2. Disconnect the spark plug wire and ground it against the engine to prevent accidental starting while equipment is unattended.

NOTE

If any problems are encountered, refer to the Trouble Shooting Chart on page 19.

USING YOUR ROTARY MOWER

Be sure that lawn is clear of stones, sticks, wire, or other objects which could damage lawn mower or engine. Such objects could be accidently thrown by the mower in any direction and cause serious personal injury to the operator and others.

Operate a new engine at intermediate speeds and light load for the first few hours as you would a new automotive engine.

For best results, do not cut wet grass because it tends to stick to the underside of the mower, preventing proper discharge of grass clippings, and could cause you to slip and fall. New grass, thick grass or wet grass may require a narrower cut. Blade speed should be adjusted to the condition of the lawn.

The best mowing pattern is one that allows the clippings to discharge towards the uncut part of the lawn. This permits recutting of the clippings to further pulverize them. When cutting high weeds, discharge towards cut portion, then recut at right angles to first direction.

For best results, cut off one-third or less of the total length of the grass. Lawn should be cut in the fall as long as there is growth.

This mower is designed to be operated at full throttle to give you the best cut and do the most effective job of bagging the cut grass.

IMPORTANT

If you strike a foreign object, stop the engine. Remove wire from spark plug, thoroughly inspect the mower for any damage, and repair the damage before restarting and operating the mower. Extensive vibration of the mower during operation is an indication of damage. The unit should be promptly inspected and repaired.

ADJUSTMENTS

WARNING

Do not at any time make any adjustment to lawn mower without first stopping engine and disconnecting spark plug wire.

CUTTING HEIGHT ADJUSTMENT

An adjusting plate and thumb lever at each wheel position provides cutting height adjustment. Each adjusting plate has nine positions. Height of cut will be changed when the thumb lever is moved from one hole to another. Simply depress the lever towards wheel and move wheel and lever assembly to desired position. See figure 15.

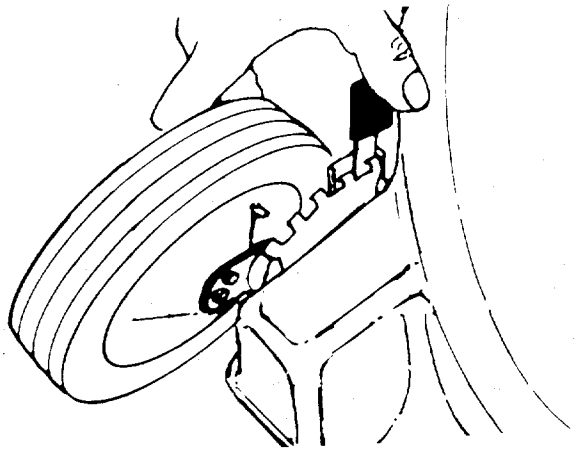


FIGURE 15.

Cutting height will be raised as the rear levers are lowered and the front levers are moved toward the front of the unit. Cutting height will be lowered as the rear levers are raised and the front levers are moved toward the rear of the unit. All wheels must be positioned at the same relative height.

For rough or uneven lawns, move the wheels to a position which will give a higher cutting height.

DRIVE CLUTCH ADJUSTMENT

The drive pinions should be approximately 1/16" from the drive wheels when the clutch is disengaged (clutch handle is released). Refer to figure 7.

If there is not 1/8" of clearance, adjust the hex nuts at the cable bracket until 1/16" of clearance is obtained and the drive mechanism engages properly.

If additional adjustment is needed, unhook the cable from the clutch handle and move it to the next higher adjustment hole provided. Refer to figure 6. Then readjust the hex nuts at the cable bracket.

CHAIN ADJUSTMENT

Check for correct chain adjustment and alignment after first five to ten hours of operation. Adjust as follows:

1. Loosen (do not remove) the hex bolt on each side of the pinion pivot plate. See figure 16.

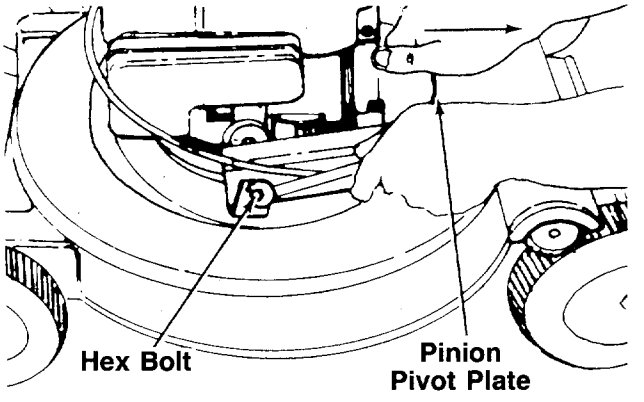


FIGURE 16.

2. Pull back on the left side of the pivot plate, by hand, until the proper chain tension is achieved. Tighten the hex bolt.
3. Pull back on the right side of the pivot plate until the clearance between the pinion and wheel is equal on both sides. Tighten the hex bolt.
4. Recheck for correct adjustment periodically.

THROTTLE

The throttle control wire assembly can be adjusted if necessary. Loosen the screw on the cable clamp closest to the control lever on engine. Adjust as instructed in step 5 of "Attaching the Throttle Control Cable" in Assembly Instructions.

CARBURETOR ADJUSTMENTS

WARNING

If any adjustments are made to the engine while the engine is running (e.g. carburetor), keep clear of all moving parts. Be careful of heated surfaces and muffler.

Minor carburetor adjustment may be required to compensate for differences in fuel, temperature, altitude and load. Refer to the separate engine manual packed with your mower for carburetor adjustment information.

NOTE

A dirty air cleaner will cause an engine to run rough. Be certain air cleaner is clean and attached to the carburetor before adjusting carburetor. Refer to the separate engine manual.

LUBRICATION

WARNING

Always stop engine and disconnect spark plug wire before cleaning, lubricating or doing any kind of work on lawn mower.

Blade Control—Lubricate the pivot points on the blade control handle and the brake cable at least once a season with light oil. The blade control must operate freely in both directions.

Chute Deflector—The torsion spring and pivot point should be lubricated periodically with light oil to prevent any rust or binding. Deflector must work freely.

Wheels—Mower is provided with ball bearing wheels. Lubricate at least once a season with light oil. Also, if the wheels are removed for any reason, lubricate the surface of the axle bolt and the inner surface of the wheel with light oil. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

Engine—Follow engine manual for lubrication instructions.

Throttle—Periodically lubricate throttle control lever and throttle wire assembly with a few drops of light oil for ease of operation.

Chain—The chain should be lubricated periodically with a few drops of light oil to prevent any rust or binding. Use very little or no oil if unit is being used in a dusty or sandy area.

MAINTENANCE

NOTE

When tipping the unit, empty the fuel tank and keep engine spark plug side up.

TROUBLE SHOOTING

Refer to page 19 of this manual for trouble shooting information.

BATTERY PACK REPLACEMENT

Remove the battery pack from the handle panel for replacement only. Do not separate the batteries for any reason. Dispose of batteries properly.

WARNING

Batteries contain sulfuric acid which may cause burns. Do not short circuit or mutilate in any way. Do not put batteries in fire. They may burst or release toxic materials.

When replacing battery pack in handle panel, battery pack must be positioned with the positive terminal to the right hand side and the negative terminal to the left hand side of panel. See figure 17. Replacing the battery pack incorrectly will cause serious damage.

The positive lead on the wire harness has the smaller connector. Connect the positive lead to the positive side of the battery pack, then connect the negative side.

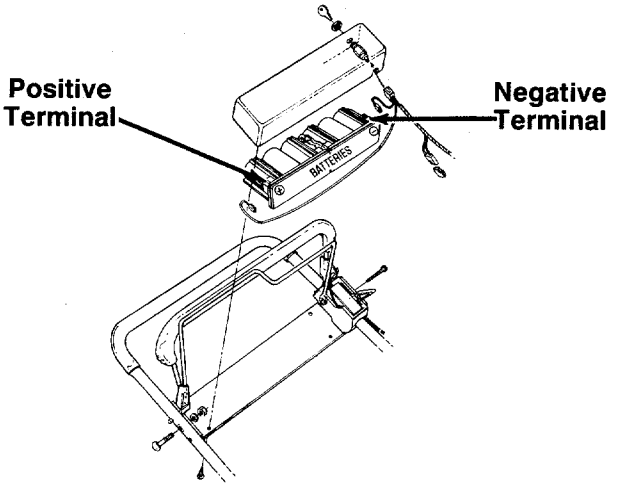


FIGURE 17.

IN-LINE FUSE

The unit is equipped with an in-line fuse. If unit fails to start, check the fuse in the wiring harness by turning the end of the fuse holder and pulling apart. See figure 18. Replace with standard automotive 7½ amp fuse.

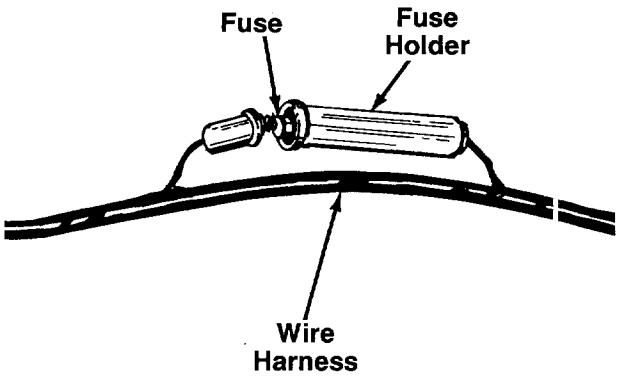


FIGURE 18.

CUTTING BLADE

A. Removal for Sharpening or Replacement

WARNING

Be sure to disconnect and ground the spark plug wire before working on the cutting blade to prevent accidental engine starting. Protect hands by using heavy gloves or a rag to grasp the cutting blade.

Remove the large bolt and lock washer which holds the blade and adapter to the engine crankshaft. Remove the blade and adapter from the crankshaft.

If the blade or blade adapter needs replacing, remove the two small bolts, lock washers and nuts which hold the blade to the adapter.

CAUTION

Periodically inspect the blade adapter for cracks, especially if you strike a foreign object. Replace when necessary.

B. Sharpening

Remove the cutting blade by following the directions of the preceding section.

When sharpening the blade, follow the original angle of grind as a guide. It is **extremely important** that each cutting edge receives an equal amount of grinding to prevent an unbalanced blade. An unbalanced blade will cause excessive vibration when rotating at high speeds, may cause damage to the mower and could break, causing personal injury.

It is recommended that the blade always be removed from the adapter for the best test of balance. The blade can be tested by balancing it on a round shaft screwdriver. Remove metal from the heavy side until it balances evenly.

C. Reassembly

Before reassembling the blade and the blade adapter to the unit, lubricate the engine crankshaft and the inner surface of the blade adapter with light oil. Lubricating the bolt holes, bolts and inner surface of the nuts with light oil is also recommended. A 4 oz. plastic bottle of light oil lubricant is available. Order part number 737-0170. Engine oil may also be used.

When replacing the blade, be sure to install the blade with the side of the blade marked "Bottom" (or with part number) facing the ground when the mower is in the operating position.

Blade Mounting Torque

3/8" Dia. Bolt 375 in. lb. min., 450 in. lb. max.
5/16" Dia. Bolt 150 in. lb. min., 250 in. lb. max.

To insure safe operation of your unit, **all** nuts and bolts must be checked periodically for correct tightness.

DECK

The underside of mower deck should be cleaned after each period of use as grass clippings, leaves, dirt and other matter will accumulate. This accumulation of grass clippings, etc., is undesirable as it will invite rust and corrosion and may cause an uneven discharge of grass clippings at the next cutting.

The deck may be cleaned by tilting the mower forward or on its side and scraping clean with a suitable tool or by washing with a stream of water from a garden hose.

NOTE

Do not direct the stream of water at a hot engine as damage to the engine may result.

ENGINE OIL

Refer to the separate engine manual for all engine maintenance instructions.

Maintain **engine oil** as instructed in the separate engine manual packed with your unit. Read and follow instructions carefully.

Service **air cleaner** every 25 hours under normal conditions. Clean every few hours under extremely dusty conditions. Poor engine performance and flooding usually indicates that the air cleaner should be serviced. To service the air cleaner, refer to the separate engine manual packed with your unit.

The **spark plug** should be cleaned and the gap reset once a season. Spark plug replacement is recommended at the start of each mowing season; check engine manual for correct plug type and gap specifications.

STORAGE OF THE BATTERY

The battery must be stored with a full charge. A discharged battery will freeze.

IMPORTANT

All batteries discharge during storage.

Recharge battery every two months and before returning to service. Refer to charging instructions on page 10.

OFF-SEASON STORAGE

The following steps should be taken to prepare lawn mower for storage.

1. Clean and lubricate mower thoroughly as described in the lubrication instructions.
2. Refer to engine manual for correct engine storage instructions.
3. Coat mower's cutting blade with chassis grease to prevent rusting.
4. Follow battery storage instructions in previous column.
5. Store mower in a dry, clean area.

NOTE

When storing any type of power equipment in an unventilated or metal storage shed, care should be taken to rustproof the equipment. Using a light oil or silicone, coat the equipment, especially chains, springs, cables and all moving parts.

NOTE

The use of any accessory on this Rotary Mower other than those manufactured by the mower manufacturer is **not** recommended.

GRASS CATCHER Model 066 is available as optional equipment for the mower shown in this manual.

1. DO NOT operate the mower without the entire grass catcher or chute deflector in place.
2. DO NOT operate the mower without the protective shield on the rear of the deck in place.

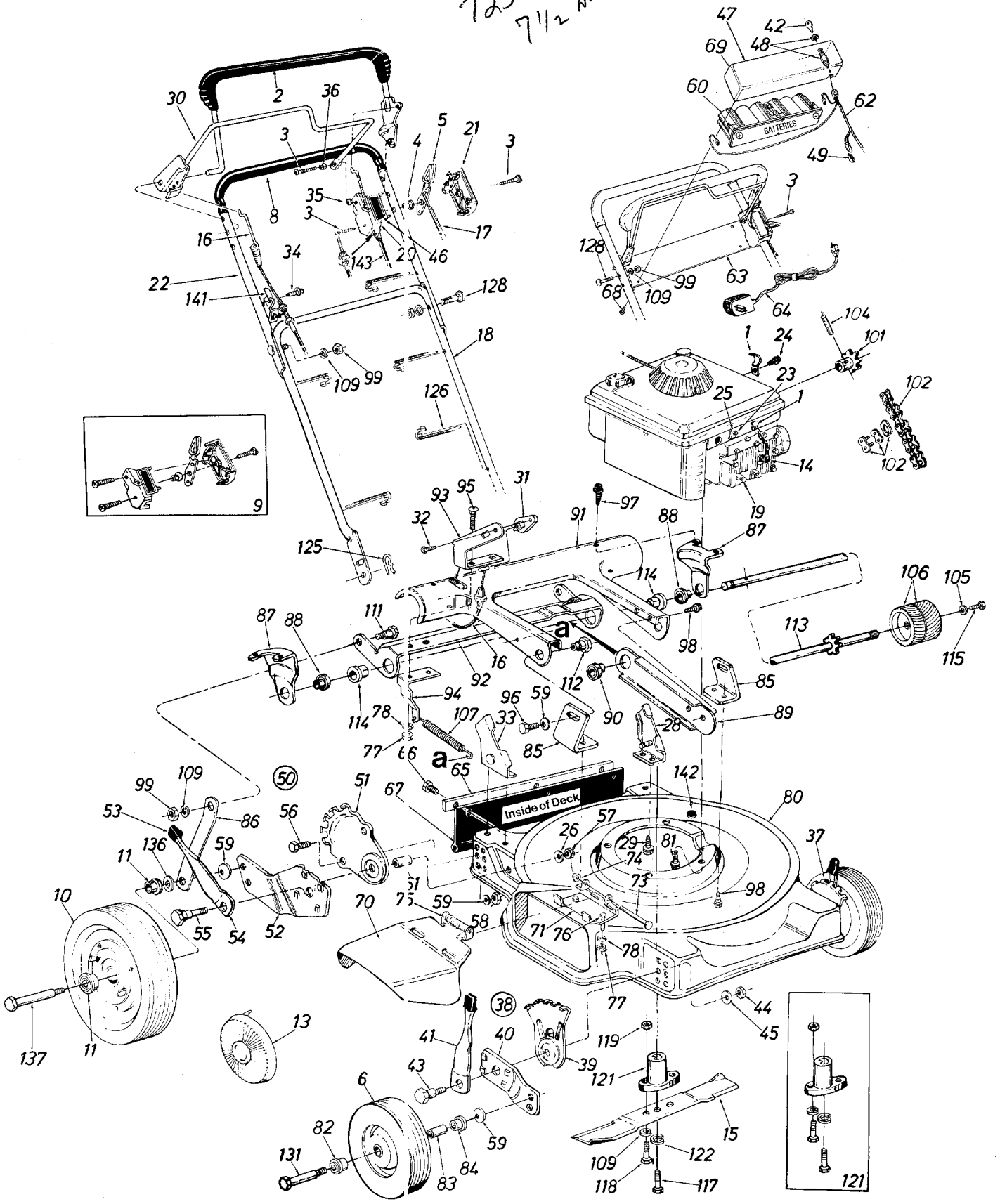
NOTE

Under normal usage bag material is subject to wear and should be checked periodically. Be sure any replacement bag complies with the mower manufacturer's recommendations.

For replacement bags, use only factory authorized replacement bag No. 764-0217.

Model 226

725-0298
7½ AMP FUSE



Model 226

PARTS LIST FOR MODEL 226 ROTARY MOWER

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART	REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
1	12894		Casing Clamp		58	712-0798		Hex Nut 3/8-16 Thd.*	
2	731-0609		Control Handle Ass'y.—L.H.		59	736-0105		Bell-Wash. .40 I.D. x .88 O.D.	
3	710-0796		Truss Mach. Hi-B Tap Scr. #12 x 1.5″		60	725-1276		Battery Pack	N
					61	750-0503		Spacer .383 I.D. x .503 O.D.	
4	731-0524		Control Disc Pin		62	725-1283		Wire Harness	N
5	731-0528		Throttle Control Lever		63	16542		Lower Battery Tray	
6	734-0645		Front Wheel Ass'y. Comp.		64	725-0727		Battery Charger	
8	718-0145		Grip		65	14846		Retaining Strip	
9	753-0430		Control Housing Comp.		66	710-0776		Hex AB-Tap Scr. ¼ x .62	
10	734-1419		Rear Wheel Ass'y. Comp.		67	731-0575		Rear Flap Ass'y.	
11	741-0180		Fl. Ball Brg. ½″ I.D.		68	710-0969		Truss Mach. Hi-Riser Tap Scr. 1″ Lg.	
13	731-0124		Hub Cap						
14	735-0639		Spark Plug Insulator		69	731-0891		Battery Tray	N
15	742-0125		22″ Blade		70	14944		Chute Deflector Ass'y.	
16	746-0607		Clutch Cable w/Spring—33″		71	11130		Adapter Plate	
17	746-0632		Throttle Wire—53″		73	711-0555		Pivot Pin	
18	749-0373		Lower Handle		74	726-0106		Push Nut ¼″	
19	—		Engine		75	732-0253		Torsion Spring	
20	731-0816		Clutch Panel Half		76	710-0289		Hex Bolt ¼-20 x .50 Lg.*	
21	731-0817		Control Panel Half		77	712-0287		Hex Nut ¼-20 Thd.*	
22	749-0536		Upper Handle		78	736-0329		L-Wash. ¼ I.D.*	
23	710-0436		Hex B-Tap Scr. #10 x .62″		80	14999	463	22″ Deck Ass'y.	
24	710-0429		Hex B-Tap Scr. #10 x .38″		81	710-0654		Hex TT-Tap Scr. 3/8-16 x 1.0	
25	751-0442		Casing Clamp		82	741-0267		Ball Bearing 3/8″ I.D.	
26	736-0242		Bell-Wash. 5/16″ I.D.		83	750-0434		Spacer	
28	12935		Handle Brkt. Ass'y—L.H.		84	741-0484		Ball Bearing ½″ I.D.	
29	710-0603		Hex B-Tap Scr. 5/16-18 x .5″		85	14759		Pivot Brkt.	
30	16604		S.P. Bail Ass'y.		86	14760		Link	
31	746-0606		Barrel Cable Hold-Down R.H.		87	14757		Axle Brkt.	
32	710-0919		B-Tap Scr. #10 x .44 Lg.		88	741-0180		Fl. Ball Brg. ½″ I.D.	
33	12936		Handle Brkt. Ass'y—R.H.		89	14877		Brg. Support	
34	710-0726		Hex Wash. AB-Tap Scr. 5/16 x .75″		90	741-0180		Fl. Ball Brg. ½″ I.D.	
					91	16319		Pinion-Pivot Cover	
35	736-0370		Spr-Wash. .206 I.D. x .448		92	16346		Drive Engagement Cam	
36	750-0649		Spacer .23 I.D. x .30 O.D.		93	16534		Engagement Arm—L.H.	
37	14579		Front Height Adj. Ass'y.—L.H.		94	16536		Spring Bracket	
38	14578		Front Height Adj. Ass'y.—R.H.		95	710-0134		Carriage Bolt ¼-20 x .62	
39	15261		Height Adj. Plate		96	710-0168		Hex Bolt 3/8-16 x .50 Lg.*	
40	15262		Pivot Bar		97	710-0776		Hex AB-Tap Scr. ¼ x .62	
41	14832		Spring Lever Ass'y. w/Knob		98	710-0892		Hex AB-Tap ¼ x .62″	
42	725-0201		Ignition Key		99	712-0267		Hex Nut 5/16-18 Thd.*	
43	738-0507		Shld. Bolt .50 Dia. x .430		101	713-0308		10T Sprocket Ass'y.	
44	712-0798		Hex Nut 3/8-16 Thd.*		102	713-0311		#48 Chain ½″ Pitch 50 Links	
45	736-0356		Bell-Wash. .39 I.D. x 1.38 O.D.			713-0122		Master Link (Service Only)	
46	777-5774		Control Label		104	715-0247		Spring Pin Spir. 3/16 Dia. x 1.0	
47	777-5902		Instruction Label						
48	725-0873		Ignition Switch		105	736-0270		Bell-Wash. .265″ I.D.	
49	725-1206		Plug		106	717-0623		Drive Pinion Half	N
50	14762		Rear Height Adj. Ass'y.—R.H.		107	732-0428		Extension Spring 4.25 Lg.	
	14763		Rear Height Adj. Ass'y.—L.H. (Not Shown)		109	736-0119		L-Wash. 5/16 I.D.*	
					111	738-0155		Shld. Bolt .437 Dia. x .162	
51	14764		Index Plate		112	738-0529		Shld. Nut .625 Dia. x .165	
52	14765		Pivot Bar—R.H.		113	738-0732		Pinion Shaft w/7T Sprocket	N
	14766		Pivot Bar—L.H. (Not Shown)		114	741-0502		Fl. Ball Brg. .501 I.D. H.D.	
53	720-0190		Spring Lever Knob		115	710-0599		Hex TT-Tap Scr. ¼-20 x .50″ Lg.	
54	732-0417		Spring Lever						
55	738-0528		Shld. Bolt .50 Dia. x .433		117	710-0331		Hex Bolt 3/8-24 x 2.25	
56	710-0216		Hex Bolt 3/8-16 x .75		118	710-0888		Hex Bolt 5/16-24 x 1.0—Spec.	
57	712-0158		Hex Cent. L-Nut 5/16-18 Thd.		119	712-0123		Hex Nut 5/16-24 Thd.	

Model 226

PARTS LIST FOR MODEL 226 ROTARY MOWER (CONTINUED)

REF. NO.	PART NO.	COLOR CODE	DESCRIPTION	NEW PART
121	753-0348		Blade Adapter Kit	
122	736-0217		L-Wash. 3/8 I.D.—H.D.	
125	714-0104		Intern. Cot. Pin 5/16 Dia.	
126	726-0240		Cable Tie	N
128	710-0671		Curved Carriage Bolt 5/16-18 x 1.38″ Lg.	
131	738-0102		Front Axle Bolt	
136	736-0192		Fl-Wash. .531 I.D. x .93 O.D.	
137	738-0144		Rear Axle Bolt	
141	16309		Cable Brkt.	
142	731-0564		Plastic Plug	
143	746-0476		Control Cable—39″ (Green)	
—	8226-000-7		Hardware Pack	

*For faster service obtain standard nuts, bolts and washers locally. If these items cannot be obtained locally, order by part number and size as shown on parts list.

(463—Topflite Red)

If color or finish is important when ordering parts, use the appropriate color code shown above [i.e. (part no.)-463 for Topflite Red Finish].

NOTE

Specifications subject to change without notice or obligation.

NOTE: The engine is not under warranty by the mower manufacturer...If repairs or service is needed on the engine, please contact your nearest authorized engine service outlet. Check the "Yellow Pages" of your telephone book under "Engines—Gasoline."

Trouble Shooting Chart

Symptom	Possible Causes	Corrective Action
1 Engine fails to start	A Blade control handle disengaged	A Engage blade control handle.
	B Check fuel tank for gas	B Fill tank if empty.
	C Fuel shut-off valve closed	C Open fuel shut-off valve.
	D Spark plug lead wire disconnected.	D Connect lead wire.
	E Throttle control lever not in the starting position	E Move throttle lever to start position.
	F Faulty spark plug	F Clean, adjust gap or replace.†
	G Carburetor improperly adjusted, engine flooded	G Remove spark plug, dry the plug, crank engine with plug removed, and throttle in off position. Replace spark plug and lead wire and resume starting procedures.
	H Old stale gasoline	H Drain and refill with fresh gasoline.
	I Engine brake engaged	I Follow starting procedure.
	J Discharged battery	J Refer to battery charging instructions.
	K Blown fuse	K Replace fuse.
2 Hard starting or loss of power	A Spark plug wire loose	A Connect and tighten spark plug wire.
	B Carburetor improperly adjusted	B Adjust carburetor.†
	C Dirty air cleaner	C Clean air cleaner.†
3 Operation erratic	A Dirt in gas tank	A Remove the dirt and fill tank with fresh gas.
	B Dirty air cleaner	B Clean air cleaner.†
	C Water in fuel supply	C Drain contaminated fuel and fill tank with fresh gas.
	D Vent in gas cap plugged	D Clear vent or replace gas cap.
	E Carburetor improperly adjusted	E Adjust carburetor.†
4 Occasional skip (hesitates) at high speed	A Carburetor idle speed too slow	A Adjust carburetor.†
	B Spark plug gap too close	B Adjust to .030″.
	C Carburetor idle mixture adjustment improperly set	C Adjust carburetor.†
5 Idles poorly	A Spark plug fouled, faulty, or gap too wide	A Reset gap to .030″ or replace spark plug.
	B Carburetor improperly adjusted	B Adjust carburetor.†
	C Dirty air cleaner	C Clean air cleaner.†
6 Engine overheats	A Carburetor not adjusted properly	A Adjust carburetor.†
	B Air flow restricted	B Remove blower housing and clean.†
	C Engine oil level low	C Fill crankcase with the proper oil.
7 Excessive vibration	A Cutting blade loose or unbalanced	A Tighten blade and adapter. Balance blade.
	B Bent cutting blade	B Replace blade.

†Refer to separate engine manual packed with your unit.
Note: For repairs beyond the minor adjustments listed above, contact your local authorized service dealer.

PARTS INFORMATION

POWER EQUIPMENT PARTS AND SERVICE

Parts and service are available through the authorized service firms listed below. All orders should specify the model number of your unit, part numbers, description of parts and the quantity of each part required.

BRIGGS AND STRATTON, TECUMSEH AND PEERLESS PARTS AND SERVICE

Briggs & Stratton, Tecumseh and Peerless parts and service should be handled by your nearest authorized engine service firm. Check the yellow pages of your telephone directory under the listing **Engines—Gasoline,** Briggs & Stratton or Tecumseh Lauson.

NOTE: If any parts are found to be missing or defective upon assembly of this unit, write to advise the factory so that immediate replacement can be made.

ALABAMA	**BIRMINGHAM**	
Auto Electric & Carburetor Co.	2625 4th Ave. S.	35233
ARKANSAS	**NORTH LITTLE ROCK**	
Sutton's Lawn Mower Shop	5301 Roundtop Drive Box 368, Rt. 4	72117
CALIFORNIA	**PORTERVILLE**	
Billious	75 North D Street	93257
COLORADO	**DENVER**	
Spitzer Industrial Products Co.	6601 N. Washington St.	80229
FLORIDA	**JACKSONVILLE**	
Radco Distributors	4909 Victor St. Box 5459	32207
	HIALEAH	
Small Eng. Dist.	7995 W. 26th Court	33016
GEORGIA	**EAST POINT**	
East Point Cycle & Key Inc.	2834 Church St.	30344
ILLINOIS	**LYONS**	
Keen Edge Co.	8615 Ogden Ave.	60534
INDIANA	**ELKHART**	
Parts & Sales Inc.	2101 Industrial Pkwy.	46516
IOWA	**DUBUQUE**	
Power Lawn & Garden Equip.	2551 J.F. Kennedy	52001
LOUISIANA	**NEW ORLEANS**	
Suhren Engine Co.	8330 Earhart Blvd.	70118
MARYLAND	**TAKOMA PARK**	
Center Supply Co.	6867 New Hampshire Ave.	20912
MASSACHUSETTS	**SPRINGFIELD**	
Morton B. Collins Co.	300 Birnie Ave.	01107
MICHIGAN	**LANSING**	
Lorenz Service Co.	2500 S. Pennsylvania	48910
	MOUNT CLEMENS	
Power Equipment Dist.	340 Hubbard	48043
MINNESOTA	**HOPKINS**	
Hance Distributing Inc.	420 Excelsior Ave. W.	55343
MISSOURI	**EARTH CITY**	
Oscar Wilson Engine & Parts	4159 Shoreline Dr.	63045
	KANSAS CITY	
Automotive Equip. Service	3117 Holmes St.	64109
	ST. JOSEPH	
Ross-Frazer Supply Co.	8th and Monterey	64503
	ST. LOUIS	
Henzler, Inc.	2015 Lemay Ferry Rd.	63125
NEW JERSEY	**ALLOWAY**	
Piersons	Canal St.	08001
NEW MEXICO	**ALBUQUERQUE**	
Spitzer Eng. & Parts Co.	1023 Third Ave. N.W.	87103
NEW YORK	**CARTHAGE**	
Gamble Dist., Inc.	West End Ave.	13619
NORTH CAROLINA	**GREENSBORO**	
Dixie Sales Company	335 N. Green	27402
OHIO	**CARROLL**	
Stebe's Mid-State Mower Supply	Box 366, 71 High St.	43112
	CLEVELAND	
Bleckrie, Inc.	7900 Lorain Ave.	44102
	WADSWORTH	
National Central	687 Seville Rd.	44281
	YOUNGSTOWN	
Burton Supply Co.	1301 Logan Ave. Box 929	44501
OREGON	**PORTLAND**	
Kenton Supply Co.	8216 N. Denver Ave.	97217
PENNSYLVANIA	**HARRISBURG**	
EECO Inc.	4021 N. 6th St.	17110
	WILLOW GROVE	
Thompson Rubber Co.	850 Davisville Rd.	19090
	PITTSBURGH	
Bluemont Co.	11125 Frankstown Rd.	15235
	PUNXSUTAWNEY	
Frank Roberts & Sons	R.D. 2	15767
	SCRANTON	
Scranton Auto Ignition Co.	1133-35 Wyoming Ave.	18509
TENNESSEE	**KNOXVILLE**	
Ace Distributors	2103 Magnolia	37919
	MEMPHIS	
American Sales & Service, Inc.	3035-43 Bellbrook	38116
TEXAS	**DALLAS**	
Marr Brothers, Inc.	423 E. Jefferson	75203
	FORT WORTH	
Woodson Sales Corp.	6733 Baker Blvd. Hwy. 10	76118
	SAN ANTONIO	
Engine House Inc.	8610 Botts Lane P.O. Box 17867	78217
UTAH	**SALT LAKE CITY**	
Powered Products	1661 N. Beck St.	84116
VIRGINIA	**ASHLAND**	
RBI Corp.	101 Cedar Ridge Dr.	23005
WASHINGTON	**SEATTLE**	
Equip. Northwest	1410 14th Ave.	98122
WISCONSIN	**MILWAUKEE**	
Wisconsin Magneto Inc.	4727 N. Teutonia St.	53209

WARRANTY PARTS AND SERVICE POLICY (0686)

The purpose of warranty is to protect the customer from defects in workmanship and materials, defects which are NOT detected at the time of manufacture. It does not provide for the unlimited and unrestricted replacement of parts. Use and maintenance are the responsibility of the customer. The manufacturer cannot assume responsibility for conditions over which it has not control. Simply put, if it's the manufacturer's fault, it's the manufacturer's responsibility; if it's the customer's fault, it's the customer's responsibility.

CLAIMS AGAINST THE MANUFACTURER'S WARRANTY INCLUDES:

1. **Replacement of Missing Parts** on new equipment.
2. **Replacement of Defective Parts** within the warranty period.
3. **Repair of Defects** within the warranty period.

All claims MUST be substantiated with the following information:

1. **Model Number, Serial Number and/or Data Code** of unit involved.
2. **Date** unit was purchased or first put into service.
3. **Date of Failure.**
4. **Nature of Failure.**